WEST Refine Search Page 1 of 1

# **Refine Search**

#### Search Results -

Terms	Documents
L8 and texture memory	42

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

L9

Refine Search
Recall Text
Clear
Interrupt

### Search History

## DATE: Tuesday, January 20, 2004 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,U	SPT, $EPAB$ , $JPAB$ , $DWPI$ , $TDBD$ ; $PLUR$ =	YES; OP=ADJ	
<u>L9</u>	L8 and texture memory	42	<u>L9</u>
<u>L8</u>	L7 and vertice\$1	96	<u>L8</u>
<u>L7</u>	L6 and calculat\$5	116	<u>L7</u>
<u>L6</u>	L5 and geometric	123	<u>L6</u>
<u>L5</u>	L3 and circuit	271	<u>L5</u>
<u>L4</u>	L3 and dircuit	0	<u>L4</u>
<u>L3</u>	L2 and frame buffer	374	<u>L3</u>
<u>L2</u>	L1 and rasteriz\$5	554	<u>L2</u>
<u>L1</u>	float\$3 adj point	18520	<u>L1</u>

#### **END OF SEARCH HISTORY**

### **Hit List**

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 11 through 20 of 42 returned.

☐ 11. Document ID: US 6567083 B1

Using default format because multiple data bases are involved.

L9: Entry 11 of 42

File: USPT

May 20, 2003

US-PAT-NO: 6567083

DOCUMENT-IDENTIFIER: US 6567083 B1 4

TITLE: Method, system, and computer program product for providing illumination in

computer graphics shading and animation

DATE-ISSUED: May 20, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Baum; Daniel R. Palo Alto CA Hanrahan; Patrick M. Portola Valley CA

Pharr; Matthew M. Palo Alto CA

US-CL-CURRENT: 345/426; 345/589

Full Title Citation Front Review Classification Date Reference Structure Structure Claims KWC Draw, Do

☐ 12. Document ID: US 6556197 B1

L9: Entry 12 of 42 File: USPT Apr 29, 2003

US-PAT-NO: 6556197

DOCUMENT-IDENTIFIER: US 6556197 B1

TITLE: High performance low cost video game system with coprocessor providing high

speed efficient 3D graphics and digital audio signal processing

DATE-ISSUED: April 29, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

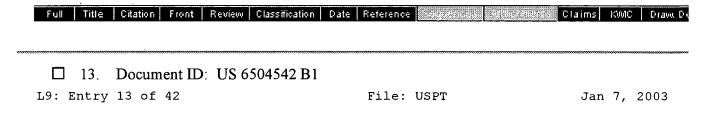
Van Hook; Timothy J. Menlo Park CA
Cheng; Howard H. San Francisco CA
DeLaurier; Anthony P. Sunnyvale CA

Gossett; Carroll P. Mountain View CA

Sunnyvale CA Moore; Robert J. Shepard; Stephen J. Cupertino CA Anderson; Harold S. Morgan Hill CA Princen; John Sunnyvale CA Doughty; Jeffrey C. Palo Alto CA Pooley; Nathan F. Mountain View CA Sheppard; Byron Santa Cruz CA

Takeda; Genyo Osaka JP Kato; Shuhei Shiga JP

US-CL-CURRENT: 345/419; 345/522



US-PAT-NO: 6504542

DOCUMENT-IDENTIFIER: US 6504542 B1

TITLE: Method, apparatus and article of manufacture for area  $\underline{\text{rasterization}}$  using sense points

•

DATE-ISSUED: January 7, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Voorhies; Douglas A.

Menlo Park

CA

Foskett; Nicholas J.

Mountain View

CA

US-CL-CURRENT: 345/441

Full Title	Citation Front	Review Classification	Date Refer	ence	Claims	KWIC	Draw. De
***************************************					 	***************************************	
□ 14.	Document ID:	US 6476807 B1					
L9: Entry	14 of 42		Fi]	e: USPT	Nov	5,	2002

US-PAT-NO: 6476807

DOCUMENT-IDENTIFIER: US 6476807 B1

TITLE: Method and apparatus for performing conservative hidden surface removal in a

graphics processor with deferred shading

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Record List Display Page 3 of 6

Duluk, Jr.; Jerome F. Palo Alto CA Dodgen; Stephen L. Boulder Creek CA Hessel; Richard E. Pleasanton CA Fang; Emerson S. Fremont CA Hsu; Hengwei Fremont CA Redgrave; Jason R. Mountain View CA Trivedi; Sushma S. Sunnyvale CA

US-CL-CURRENT: 345/421; 345/422, 345/506, 345/539, 345/582, 345/589

☐ 15. Document ID: US 6342892 B1 L9: Entry 15 of 42 File: USPT Jan 29, 2002

US-PAT-NO: 6342892

DOCUMENT-IDENTIFIER: US 6342892 B1

TITLE: Video game system and coprocessor for video game system

DATE-ISSUED: January 29, 2002

INVENTOR-INFORMATION:

STATE ZIP CODE NAME CITY COUNTRY Van Hook; Timothy J. Menlo Park CA Cheng; Howard H. San Francisco CA DeLaurier; Anthony P. Sunnyvale CA Gossett; Carroll P. Mountain View CA Moore; Robert J. Sunnyvale CA Shepard; Stephen J. Cupertino CA Anderson; Harold S. Morgan Hill CA Princen; John Sunnyvale CA Doughty; Jeffrey C. Palo Alto CA Pooley; Nathan F. Mountain View CA Sheppard; Byron Santa Cruz CA Takeda; Genyo Osaka JΡ Kato; Shuhei Shiga JΡ

US-CL-CURRENT: 345/503; 345/419, 345/541, 345/542, 463/32, 463/43, 463/44

Full Title Citation Front Review Classification Date Reference Claims KWC Draw De ☐ 16. Document ID: US 6331856 B1 L9: Entry 16 of 42

File: USPT

US-PAT-NO: 6331856

Dec 18, 2001

DOCUMENT-IDENTIFIER: US 6331856 B1

TITLE: Video game system with coprocessor providing high speed efficient 3D graphics and digital audio signal processing

DATE-ISSUED: December 18, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Van Hook; Timothy J. Menlo Park CA Cheng; Howard H. San Francisco CA CA DeLaurier; Anthony P. Sunnyvale CA Gossett; Carroll P. Mountain View Moore; Robert J. Sunnyvale CA Shepard; Stephen J. Cupertino CA Anderson; Harold S. Morgan Hill CA Princen; John Sunnyvale CA Doughty; Jeffrey C. Palo Alto CA Pooley; Nathan F. Mountain View CA Santa Cruz Sheppard; Byron CA Takeda; Genyo Hirakata JΡ Kato; Shuhei Otsu JΡ

US-CL-CURRENT: 345/503; 345/520

Full T	itle Citation	Front Review	Classification   C	)ate   Re	ference			Claims	KWIC	Draw, De
		· •••••••••••••	~~~	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		***************************************	***************************************			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		<u></u>								
$\Box$ 1	7. Docum	ent ID: US 63	326964 B1							
L9: Ent	try 17 of	42		F	ile:	USPT		Dec	4,	2001

US-PAT-NO: 6326964

DOCUMENT-IDENTIFIER: US 6326964 B1

TITLE: Method for sorting 3D object geometry among image chunks for rendering in a

layered graphics rendering system

DATE-ISSUED: December 4, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Snyder; John M. Redmond WA Elliott; Conal M. Redmond WA

US-CL-CURRENT: 345/419

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw, De

☐ 18. Document ID: US 6292194 B1

L9: Entry 18 of 42

File: USPT

Sep 18, 2001

US-PAT-NO: 6292194

DOCUMENT-IDENTIFIER: US 6292194 B1

TITLE: Image compression method to reduce pixel and texture memory requirements in

graphics applications

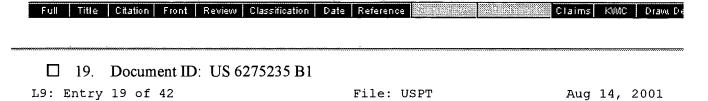
DATE-ISSUED: September 18, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Powell, III; William Chambers Seattle WA

US-CL-CURRENT: 345/582



US-PAT-NO: 6275235

DOCUMENT-IDENTIFIER: US 6275235 B1

TITLE: High precision texture wrapping method and device

DATE-ISSUED: August 14, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Morgan, III; David L. Mountain View CA

US-CL-CURRENT: 345/582

	Full		Title	Citation	Front	Review	Classification	Date	Reference		Claims	KWIC	Draw, De
***************************************		······		······		·········					 		
			20.	Docum	ent ID	: US 62	268875 B1						
L	9:	Εr	ntry	20 of	42				File: U	SPT	Jul	31,	2001

US-PAT-NO: 6268875

DOCUMENT-IDENTIFIER: US 6268875 B1

TITLE: Deferred shading graphics pipeline processor

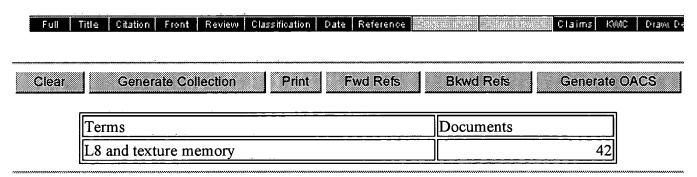
DATE-ISSUED: July 31, 2001

INVENTOR-INFORMATION:

Record List Display Page 6 of 6

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Duluk, Jr.; Jerome F.	Palo Alto	CA			
Hessel; Richard E.	Pleasanton	CA			
Arnold; Vaughn T.	Scotts Valley	CA			
Benkual; Jack	Cupertino	CA			
Bratt; Joseph P.	San Jose	CA			
Cuan; George	Sunnyvale	CA			
Dodgen; Stephen L.	Boulder Creek	CA			
Fang; Emerson S.	Fremont	CA			
Gong; Zhaoyu	Cupertino	CA			
Ho; Thomas Y.	Fremont	CA			
Hsu; Hengwei	Fremont	CA			
Li; Sidong	San Jose	CA			
Ng; Sam	Fremont	CA			
Papakipos; Matthew N.	Menlo Park	CA			
Redgrave; Jason R.	Mountain View	CA			
Trivedi; Sushma S.	Sunnyvale	CA			
Tuck; Nathan D.	San Diego	CA			

US-CL-CURRENT: 345/506; 345/422



Display Format: - Change Format

Previous Page Next Page Go to Doc#

L Number	Hits	Search Text	DB	Time stamp
1	2	(("6504542") or ("0599196")).PN.	USPAT	2004/01/20
2	2	(("6504542") or ("5999196")).PN.	USPAT	12:09 2004/01/20
3	0	("float\$3adjpointadjformat").PN.	USPAT	12:13 2004/01/20
4	904	float\$3 adj point adj format	USPAT	12:13 2004/01/20
5	45	(float\$3 adj point adj format) same	USPAT	12:14
		raster\$9	j	12:14

	ט	1	Do	cument ID	Issue Date	Pages	Title	Current	OR
1			US B1	6664962	20031216	37	Shadow mapping in a low cost graphics system	345/426	
2			US B1	6664958	20031216	32	Z-texturing	345/422	
3			US B2	6650331	20031118	64	System, method and computer program product for performing a scissor operation in a graphics processing framework embodied on a single semiconductor platform	345/522	
4			US B2	6650330	20031118	63	Graphics system and method for processing multiple independent execution threads	345/506	
5			US B1	6650327	20031118	17	Display system having floating point rasterization and floating point framebuffering		
6			US B1	6650325	20031118	63	Method, apparatus and article of manufacture for boustrophedonic rasterization	345/426	
7			US B1	6643744	20031104	27	Method and apparatus for pre-fetching audio data	711/137	
8			US B1	6639595	20031028	46	Achromatic lighting in a graphics system and method	345/426	
9			US B1	6636214	20031021	38	Method and apparatus for dynamically reconfiguring the order of hidden surface processing based on rendering mode	345/422	
10			US B2	6621501	20030916	17	Pixel zoom system and method for a computer graphics system	345/660	

	Current XRef	Retrieval Classif	Inventor	s	С	P	2	3	4	5
1	345/421; 345/422; 345/582; 345/589		Komsthoeft, Matthew et al.	×						
2	345/421; 345/428; 345/581; 345/582; 345/587		Leather, Mark M. et al.	×						
3			Lindholm, John Erik et al.	⊠						
4	345/561; 712/206; 712/215; 712/245; 712/246		Lindholm, John Erik et al.	×						
5	345/422; 365/189.05		Airey, John M. et al.	×						
6	345/422; 345/428; 345/552; 345/561; 345/581; 345/586		Voorhies, Douglas A. et al.	×						
7	711/169; 711/213; 711/218; 712/210		Cheng, Howard H.	×						
8	345/420; 345/520; 345/582; 345/589		Drebin, Robert A. et al.	×						
9	345/421; 345/502; 345/506; 345/532; 345/536; 345/582		Leather, Mark M. et al.	×						
10	345/667		Morrison, Teresa M	×						

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1	US	6664962	
2	US	6664958	
3	US	6650331	
4	US	6650330	
5	US	6650327	
6	US	6650325	
7	US	6643744	
8	US	6639595	
9	US	6636214	
10	US	6621501	

	บ	1	Do	cument ID	Issue Date	Pages	Title	Current	OR
11			US B1	6618048	20030909	26	3D graphics rendering system for performing Z value clamping in near-Z range to maximize scene resolution of visually important Z components	345/422	
12			US B1	6609977	20030826	98	External interfaces for a 3D graphics system	463/36	
13			US B1	6606689	20030812	30	Method and apparatus for pre-caching data in audio memory	711/137	
14			US B1	6597356	20030722	94	Integrated tessellator in a graphics processing unit	345/423	
15			US B1	6580430	20030617	25	Method and apparatus for providing improved fog effects in a graphics system	345/473	
16			US B2	6577309	20030610	64	System and method for a graphics processing framework embodied utilizing a single semiconductor platform	345/426	
17			US B1	6573900	20030603	62	Method, apparatus and article of manufacture for a sequencer in a transform/lighting module capable of processing multiple independent execution threads	345/537	
18			US B1	6515671	20030204	64	Method, apparatus and article of manufacture for a vertex attribute buffer in a graphics processor	345/506	
19			US B1	6504542	20030107	64	Method, apparatus and article of manufacture for area rasterization using sense points	345/441	
20			US B2	6502115	20021231	36	Conversion between packed floating point data and packed 32-bit integer data in different architectural registers	708/204	
21			US B2	6489963	20021203	41	Application program interface for a graphics system	345/522	

	Current XRef	Retrieval Classif	Inventor	s	С	P	2	3	4	5
11	345/421; 345/427; 345/428; 345/506; 345/620; 345/627		Leather, Mark M.	⊠						
12	710/72		Shimizu, Dan et al.	Ø						
13	712/207		Cheng, Howard H. et al.	⊠						
14	345/421; 345/426; 345/427		Moreton, Henry P. et al.	Ø						
15	345/419; 345/426		Hollis, Martin et al.	⊠						
16	345/418		Lindholm, John Erik et al.	⊠						
17	345/531; 345/533; 345/556		Lindholm, John Erik et al.	×						
18	345/522		Lindholm, John Erik et al.	×						
19			Voorhies, Douglas A. et al.	×						
20	712/220		Abdallah, Mohammad A. F. et al.	⊠						
21	345/581; 712/208; 719/328		Parikh, Vimal et al.	Ø						

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11	US	6618048	
12	US	6609977	
13	US	6606689	
14	US	6597356	
15	US	6580430	
16	US	6577309	
17	US	6573900	
18	US	6515671	
19	US	6504542	
20	US	6502115	
21	US	6489963	

	U	1	Do	cument ID	Issue Date	Pages	Title	Current	OR
22			US B2	6480868	20021112	34	Conversion from packed floating point data to packed 8-bit integer data in different architectural registers	708/204	
23			US B2	6466218	20021015	40	Graphics system interface	345/522	
24			US B2	6462737	20021008	63	Clipping system and method for a graphics processing framework embodied on a single semiconductor platform	345/426	
25			US B2	6456290	20020924	40	Application program interface for a graphics system	345/522	
26			US B1	6452600	20020917	42	Graphics system interface	345/522	
27			US B1	6452595	20020917	69	Integrated graphics processing unit with antialiasing	345/426	
28			US B1	6437781	20020820	16	Computer graphics system having per pixel fog blending	345/426	
29			US B1	6424348	20020723	40	Application program interface for a graphics system	345/522	
30			US B1	6421063	20020716	17	Pixel zoom system and method for a computer graphics system	345/660	
31			US B2	6421058	20020716	40	Graphics command stream for calling a display object in a graphics system	345/522	
32			US B1	6417851	20020709	65	Method and apparatus for lighting module in a graphics processor	345/426	
33			US B1	6411301	20020625	40	Graphics system interface	345/522	

	Current XRef	Retrieval Classif	Inventor	s	С	P	2	3	4	5
22	712/221		Abdallah, Mohammad A.F. et al.	×						
23	345/422; 345/501; 345/503; 345/545; 719/328		Parikh, Vimal et al.	⊠						
24	345/418		Lindholm, John Erik et al.	×						
25	345/520; 345/559; 345/581		Parikh, Vimal et al.	⊠						
26	345/559; 345/581; 345/582		Parikh, Vimal et al.	Ø						
27	345/519; 345/611		Montrym, John S. et al.	×						
28			Tucker, S. Paul et al.	Ø						
29	345/503; 345/559; 345/567; 345/581; 712/205; 719/328		Parikh, Vimal et al.	×						
30			Morrison, Teresa M	×						
31	345/553; 345/567; 712/208; 719/328		Parikh, Vimal et al.	×						
32	345/501; 345/506		Lindholm, John Erik et al.	Ø						
33	345/427; 345/567; 712/208; 719/328		Parikh, Vimal et al.	⊠						

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22	US	6480868	
23	US	6466218	
24	US	6462737	
25	US	6456290	
26	US	6452600	
27	US	6452595	
28	US	6437781	
29	US	6424348	
30	US	6421063	
31	US	6421058	
32	US	6417851	
33	US	6411301	

	υ	1	Do	cument ID	Issue Date	Pages	Title	Current OR
34			US B1	6353439	20020305	67	System, method and computer program product for a blending operation in a transform module of a computer graphics pipeline	345/561
35			US B1	6342888	20020129	64	Graphics processing unit with an integrated fog and blending operation	345/426
36			US B1	6292815	20010918	36	Data conversion between floating point packed format and integer scalar format	708/204
37		:	US B1	6266769	20010724	34	Conversion between packed floating point data and packed 32-bit integer data in different architectural registers	712/221
38			US B1	6263426	20010717	34	Conversion from packed floating point data to packed 8-bit integer data in different architectural registers	712/229
39			US B1	6247116	20010612	37	Conversion from packed floating point data to packed 16-bit integer data in different architectural registers	712/221
40			US B1	6198488	20010306	65	Transform, lighting and rasterization system embodied on a single semiconductor platform	345/426
41			US A	6005583	19991221	18	Precise gradient calculation system and method for a texture mapping system of a computer graphics system	345/587
42			US A	5995122	19991130	37	Method and apparatus for parallel conversion of color values from a single precision floating point format to an integer format	345/561
43			US A	5960213	19990928	19	Dynamically reconfigurable multi-function PCI adapter device	710/2

	Current XRef	Retrieval Classif	Inventor	s	С	P	2	3	4	5
34	345/426; 345/427; 345/506		Lindholm, John Erik et al.	×						
35	345/418		Lindholm, John Erik et al.	×						
36	708/497; 708/551; 712/221		Abdallah, Mohammad A. F. et al.	×						
37	345/563		Abdallah, Mohammad A. F. et al.	⊠						
38	345/563		Abdallah, Mohammad A. F. et al.	×						
39			Abdallah, Mohammad A. F. et al.	Ø						
40	345/418; 345/419		Lindholm, John Erik et al.	⊠						
41	345/427		Morrison, Teresa M.	×						
42	345/505; 345/559; 345/600; 708/204; 708/495; 712/222		Hsieh, Hsien-Cheng E. et al.	⊠						
43	710/10; 713/1		Wilson, Malcolm Eric	⊠						

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34	US	6353439	
35	US	6342888	
36	US	6292815	
37	US	6266769	
38	US	6263426	
39	US	6247116	
40	US	6198488	
41	US	6005583	
42	US	5995122	
43	US	5960213	

	บ	1	Document ID	Issue Date	Pages	Title	Current O
44			US 5862066 A	19990119	10	Methods and apparatus for fast check of floating point zero or negative zero	708/525
45			US 5384912 A	19950124	15/1	Real time video image processing system	345/501

	Current XRef	Retrieval Classif	Inventor	s	С	P	2	3	4	5
44	708/504		Rossin, Theodore G. et al.	×						
45			Ogrinc, Michael A. et al.	×						

		Image Doc. Displayed					
44	US	5862066					
45	US	5384912					